PATENT COOPERATION TREATY

REC'D 2 4 JAN 2006

INTERNATIONAL PRELIMINARY REPORT ON PATENTABIL WYO

PCT

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 12557510/MKR/KLL	FOR FURTHER AC	TION S	See Form PCT/IPEA/416		
International application No.	International filing dat	e (day/month/year)	Priority date (day/month/year)		
PCT/AU2005/000037	14 January 2005		16 January 2004		
International Patent Classification (IPC) or na	ational classification a	nd IPC	·		
		F 26B 11/14 (2006.01)			
B09B 3/00 (2006.01) B02C	<i>C 19/06</i> (2006.01)	C02F 1/38 (2006.01)			
Applicant					
ADVANCED GRINDING TECH	NOLOGIES PTY LI	MITED et al	İ		
	•				
This report is the international preliminar	y examination report	established by this Inter	national Preliminary Examining		
Authority under Article 35 and transmitte	ed to the applicant acco	ording to Article 36.	· .		
2. This REPORT consists of a total of ψ s	heets, including this co	over sheet.			
3. This report is also accompanied by ANNI	EXES, comprising:	•			
a. X (sent to the applicant and to the l	International Bureau)	a total of 8 sheets, as	follows:		
sheets of the description, classification sheets containing rectifications Administrative Instructions	ons authorized by this		led and are the basis for this report and/or .16 and Section 607 of the		
the disclosure in the interna			contain an amendment that goes beyond a 4 of Box No. I and the Supplemental		
Box.					
b. (sent to the International Bureau a sequence listing and/or table re Sequence Listing (see Section 80	lated thereto, in electro	onic form only, as indic	electronic carrier(s)) , containing ated in the Supplemental Box Relating to		
4. This report contains indications relating					
X Box No. I Basis of the report			·		
Box No. II Priority		,			
	t of opinion with regard	d to novelty, inventive	step and industrial applicability		
Box No. IV Lack of unity of in	-				
		with regard to novelty	inventive step or industrial applicability;		
citations and expla	mations supporting suc		myonitye step of midustrial applicatinity,		
X Box No. VI Certain documents	s cited				
Box No. VII Certain defects in t	Box No. VII Certain defects in the international application				
Box No. VIII Certain observation	ns on the international	application			
Date of submission of the demand	T	Date of completion of	this report		
16 November 2005		13 January 2006	-		
Name and mailing address of the IPEA/AU	•	Authorized Officer			
AUSTRALIAN PATENT OFFICE		•	·		
PO BOX 200, WODEN ACT 2606, AUSTRALI E-mail address: pct@ipaustralia.gov.au	IA	MATTHEW FRAN	icis		
Facsimile No. (02) 6285 3929		Telephone No. (02) 62	283 2424		

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/AU2005/000037

Box	No. I Basis of the report	
1.	With regard to the language, this report is based on:	
	X The international application in the language in which it was filed	•
-	A translation of the international application into , which is the language of translation furnished for the purposes of:	`a
	international search (under Rules 12.3(a) and 23.1 (b))	
	publication of the international application (under Rule 12.4(a))	
	international preliminary examination (Rules 55.2(a) and/or 55.3(a))	
2.	With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report): the international application as originally filed/furnished	
	X the description:	
	pages 1-30 as originally filed/furnished	
	pages* received by this Authority on with the letter of	
	pages* received by this Authority on with the letter of The claims:	
	pages as originally filed/furnished	•
_	pages* as amended (together with any statement) under Article 19	
	pages* 31-38 received by this Authority on 16 November 2005 with the letter of 16 November	2005
	pages* received by this Authority on with the letter of	
	X the drawings: pages 1-6 as originally filed/furnished	
	pages 1-0 as originally mediumished pages* received by this Authority on with the letter of	
	pages* received by this Authority on with the letter of	
	a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.	
3.	The amendments have resulted in the cancellation of:	
	the description, pages	
	the claims, Nos.	
	the drawings, sheets/figs	
	the sequence listing (specify):	
	any table(s) related to the sequence listing (specify):	
4.	This report has been established as if (some of) the amendments annexed to this report and listed below had not be made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (70.2(c)).	
	the description, pages	
	the claims, Nos.	•
	the drawings, sheets/figs	
	the sequence listing (specify):	
	any table(s) related to the sequence listing (specify):	
	If item 4 applies, some or all of those sheets may be marked "superseded."	

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/AU2005/000037

	t under Article 35(2) with a nations supporting such sta	regard to novelty, inventive step or industrial applicability; stement
1. Statement		
Novelty (N)	Claims 1-56	YES
	Claims	NO
Inventive step (IS)	Claims 1-56	YES
	Claims	МО
Industrial applicability (IA	A) Claims 1-56	YES
	Claims	NO
2. Citations and explanations (Rule 7	0.7)	
D1: Derwent Abstract Acces	ssion No. 98-540702/46	D11: DE 20215158
D2: DE 3002429		D12: EP 1273341
D3: AU 19540/00	·	D13: EP 1208905
D4: AU 15002/97	•	D14: US 5538342
D5: DE 3916258	•	D15: Patent Abstracts of Japan, JP 2002-035562
D6: Patent Abstracts of Japa	n, JP 09-066243	D16: Patent Abstracts of Japan, JP 2002-059144
D7: US 4650343	•	D17: Patent Abstracts of Japan, JP 2002-282723
D8: US 4799595	•	D18: Patent Abstracts of Japan, JP 2003-093909
D9: US 2003/0197080		D19: Derwent Abstract Accession No. 2003-595298/56
D10: US 2002/0064086	٠	D20: Derwent Abstract Accession No. 97-200542/18

Novelty and Inventive Step (Claims 1-65)

Documents D1-D20 disclose various examples of processing apparatus, all of which feature a chamber, and inlet, an outlet and a rotor rotated about a vertical axis. The apparatus of documents D1-D20 are used for a wide variety of purposes, such as milling or grinding, mixing, blending, separation, drying and sterilisation. However, none of the cited art discloses or suggests the combination of features presently claimed. In particular, there is no disclosure of a single rotor of substantially circular gross cross section rotatable at 200kph-1200kph about a vertical axis having features thereon that promote a circulatory flow within the chamber. Hence these claims are considered both novel and inventive.

Industrial Applicability (Claims 1-65)

The current claims are directed towards a processing apparatus and therefore have industrial applicability.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/AU2005/000037

Certain published docume	nts (Bule 70 10)					
Application No. Patent No. WO 2004/067468	Publicatio (<u>day/mont</u> 12 Augus	h/year)	Filing d (<u>day/mont/</u> 26 January	v/year)	(day/	ate (valid claim) <u>/month/year)</u> nuary 2003
US 2004/0218464	4 Novemb		2 May 2	2003	2 N	May 2003
WO 2004/041442	21 May		24 Octobe		4 Nov	ember 2002
DE 10308500	23 Septemi		26 Februar	y 2003	26 Fe	bruary 2003
WO 2004/091797	28 Octobe		16 April	2004	17 A	April 2003
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. Non-written disclosures (Rule 70 9)					
140n-written disclosures (Kuio 70.5)					
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		(day/m	onth/year)		eferring to non-w	ritten disclosure
		(day/m	onth/year)		eferring to non-w	ritten disclosure h/year)
		(day/m	onth/year)		referring to non-wi	ritten disclosure h/year)